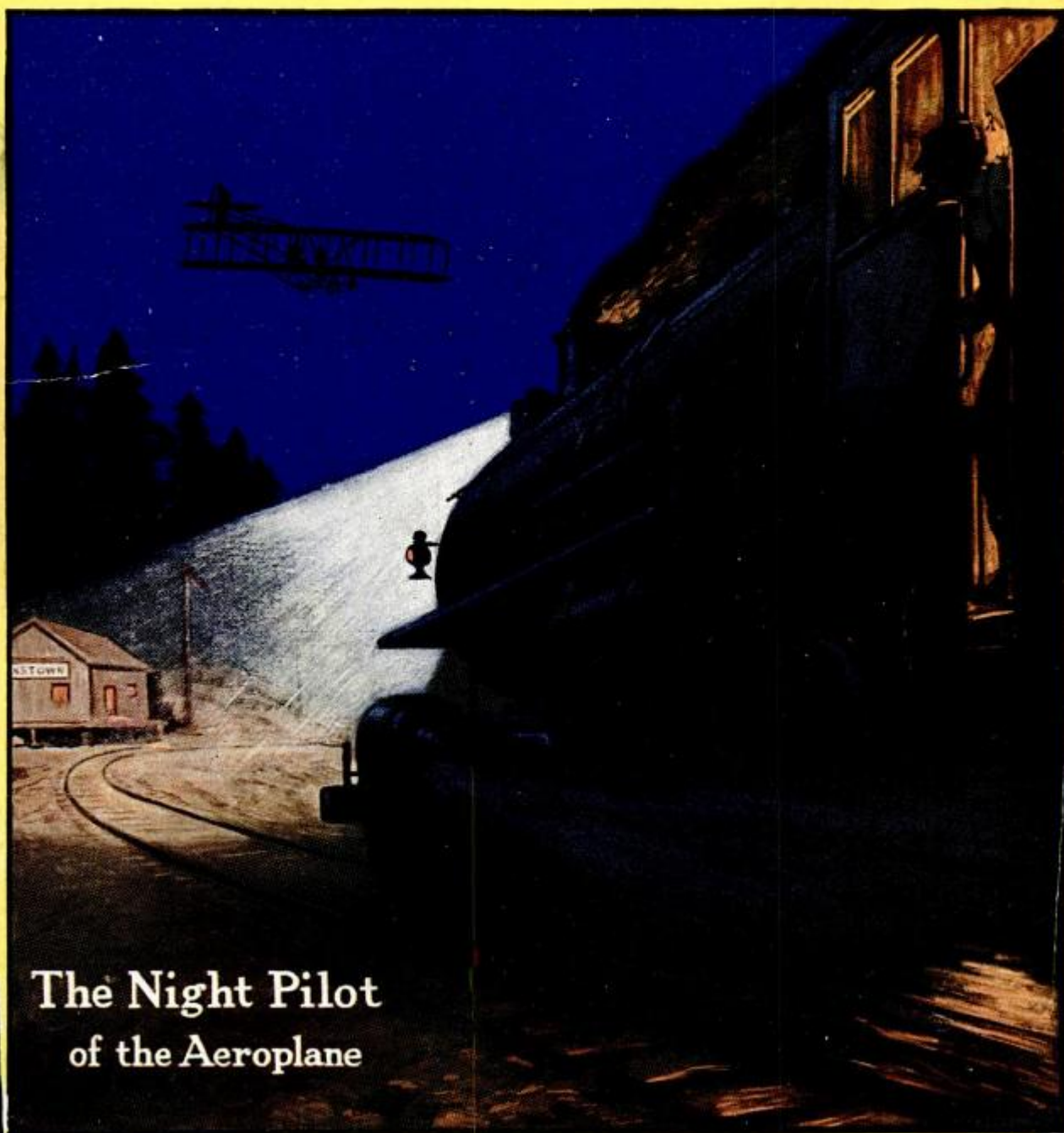


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318 W. Washington Street, Chicago, U. S. A.

EDITED BY H. H. WINDSOR

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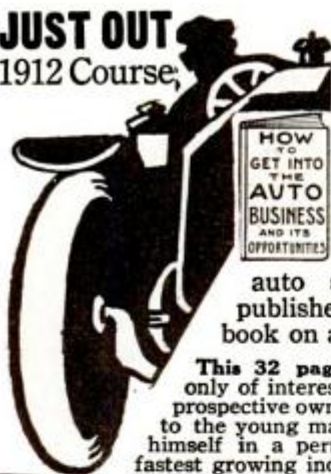
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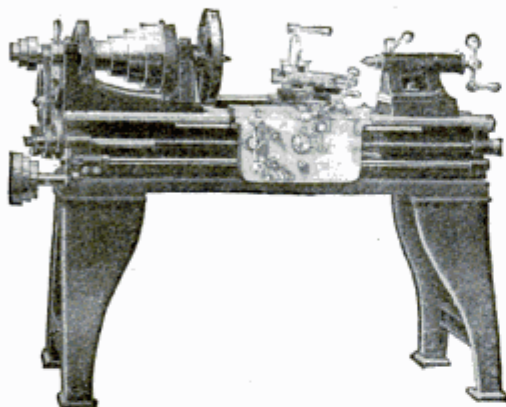
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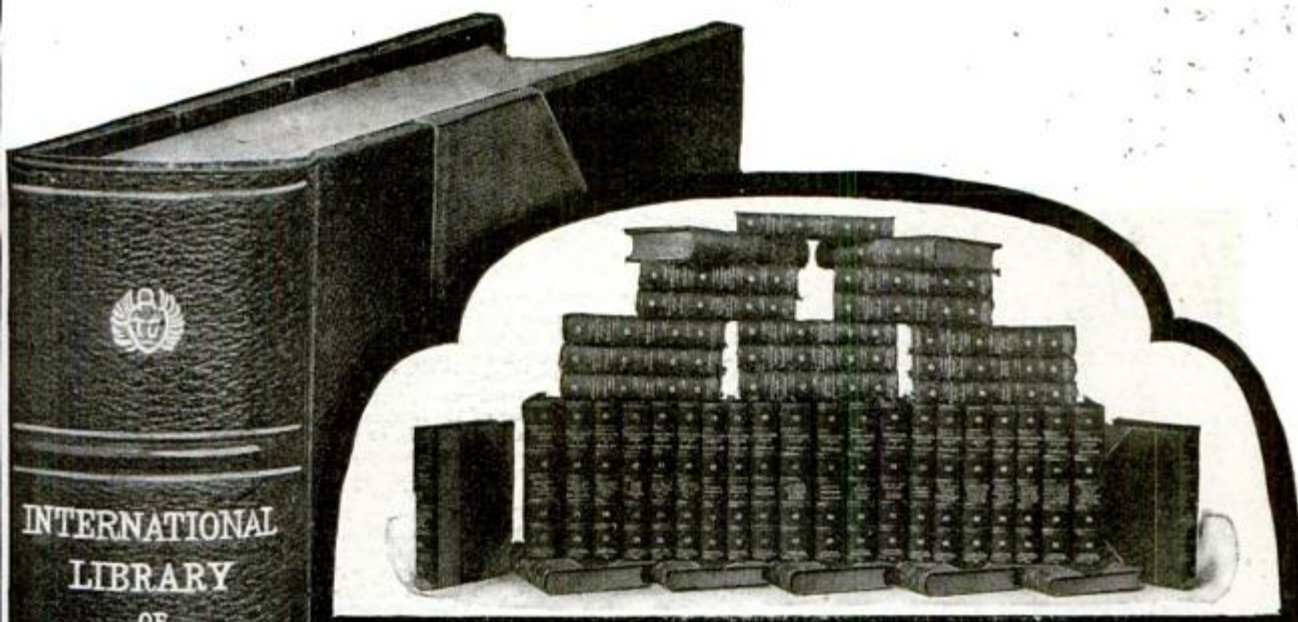
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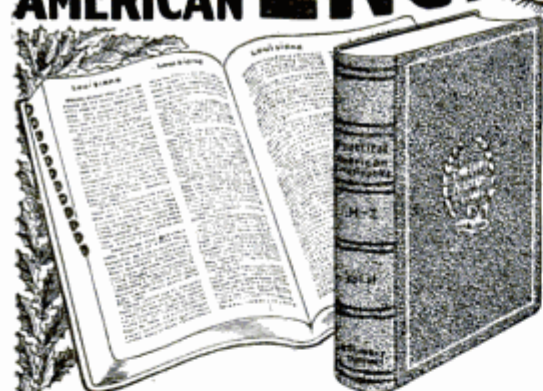
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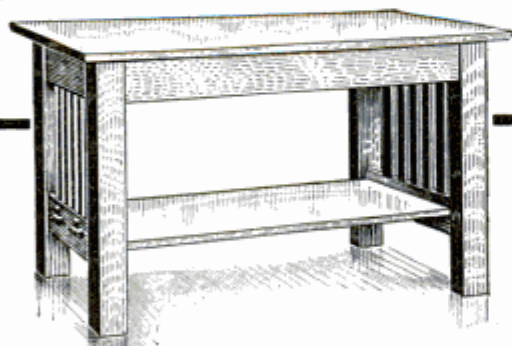
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## MONTHLY CASH PRIZES

Until further notice in this magazine the Editor of Popular Mechanics will pay two cash prizes each month for the best original contributions to its

### SHOP NOTES DEPARTMENT

\$10 for the Best Contribution  
\$5 for the Second Best

THIS IS IN ADDITION to our usual rates for such contributed articles.

Quality, not length counts.  
Checks will be sent on the last day of each month for the prize articles received during that month. Publication in the magazine will follow in about two months.

### PRIZES AWARDED FOR OCTOBER, 1911

First Prize—CHAS. HOMEWOOD, Waterloo, Ia. \$10  
"Cork Corners for a Drawing Board"  
Second Prize—FRANK ROSENBERG, Worcester, Mass. \$5  
"Hanging Pictures"

### EXTRA AWARD

On account of there being five contributions this month, each of which deserved second prize, we have made an EXTRA AWARD of four additional second prizes, as follows:

FRED GRINHAM, St. Louis, Mo. \$5  
"Removing Carbon Deposits in Gasoline Engines"  
F. G. MARBACH, Cleveland, O. \$5  
"Wedge for a Hammer Handle"  
D. L. KELLOGG, Stillwater, Minn. \$5  
"Weatherboard Spacing Gauge"  
BERT L. FORSE, Poughkeepsie, N. Y. \$5  
"Keeping Dampness from Tools"

All accepted contributions to our departments, "SHOP NOTES" and "AMATEUR MECHANICS," are paid for immediately; checks for prize awards are sent at the end of each month.

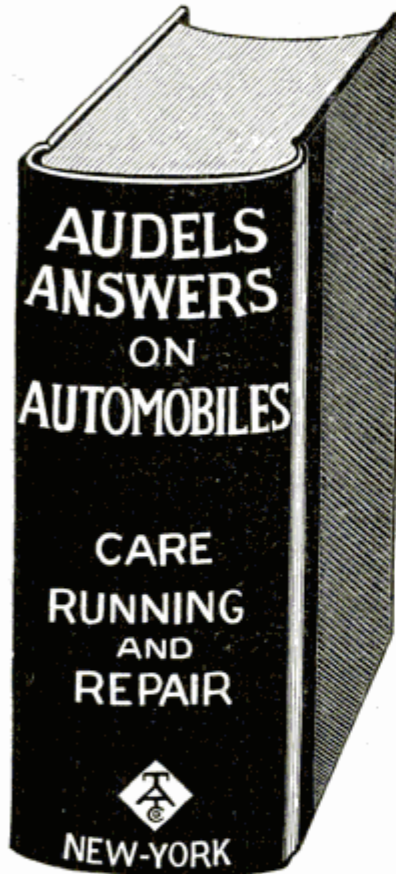
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# NOTICE—The below reduced size page will be read with great interest:

## FIELD FOR DRAFTSMEN

*This Page taken from \*Popular Mech.\* Advertising Section Jan. 1910*

**Big Demand for Mechanical Draftsmen. Positions Paying \$100 to \$150 Per Month**

It is perhaps not known to many Readers of Popular Mechanics, but especially to the ambitious, wide awake, and progressive ones and to the large number of Mechanics reading this paper that there is no better field or opportunity for advancement than there is to the practical and well trained Mechanical Draftsman.

But not that man is wanted who has the largest or most expensive library of technical school books "at home," neither the one that carries along with him under his arm when applying for a position a nicely engraved "beautiful Diploma" on paper (costing \$50 to \$75 per sq. ft.) nor the "would be" Draftsman that can "copy" a nice looking picture from another picture with given dimensions.

No, the demand is for Draftsmen with practical Drafting Room training that can "Do Things," Do it "themselves," and Do it right away "Right."

No Employer cares for your Diploma, neither for your set of nice "Books at Home" in your Book-case. He wants you to "Deliver the Goods" for the money he pays. To Draw \$100—\$150 per month, the average Salary paid to Draftsmen, you must be able to do more than "Only make a Copy" of someone else's drawing. Originality and practical ability is demanded of you and this requires practical training.

The quickest and best way to be trained on practical Drafting Room work and to get the required practical experience is to receive personal and individual Instruction from a High

Grade practical man at the trade, with a reputation as the most experienced man in training men to become COMPETENT and SUCCESSFUL DRAFTSMEN.

An ordinary Draftsman, not even the best Draftsman can teach this trade unless he has many years of experience as an Instructor, and has ability to impart knowledge that is understood and that will stick forever. A special gift that 99 out of 100 do not have.

Mr. P. Dobe, Chief Draftsman of the Engineers Equipment Co. (inc.) Chicago, with 20 years experience in training and handling men has for a good many years given personal individual Instruction by mail with the most deserving success, because his Instruction work consists of actual practical Drafting Room work that gives his personal student and apprentice the required practical experience.

He treats each student personally and gives him individual practical working instruction according to the ability of the student to master the work and to advance. His instruction is not given as patent medicine the same for all alike, and his personal assistance is very valuable to anyone.

Mr. Dobe has been an advertiser in this paper for a good many years and will send his "Successful Draftsmanship" Prospectus, 6x9, also list of 250 open Draftsmen positions and full information free. Anyone earnestly interested should write to him personally, his advertisement appears on last page of this book.

Read it over again \*Every Word true\*

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# Classified Advertisements

Advertisements in this section, 10 cents per word, each insertion payable in advance. To insure ads being inserted under proper classified head in the January issue, copy must reach this office not later than December 1st.

Popular Mechanics Magazine,

318 W. Washington St., Chicago, Ill.

Gentlemen: It gives us pleasure to advise that the results received from our classified ads in Popular Mechanics Magazine have been very satisfactory. As a matter of fact they have been way beyond expectations. We have used the classified columns of Popular Mechanics Magazine for nearly three years. Although we advertise in several hundred other publications we consider Popular Mechanics Magazine the leader. We, of course, extend to you the privilege of using this commendatory letter in any way you may consider beneficial to your interests. We beg to remain,

THE AUTOMOBILE AND CYCLE CO. OF AMERICA.

1787 Broadway, New York City.

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**AUTOMOBILES FOR SALE—1907 Reo**, in fine condition, repainted this summer. 1909 Peerless, 7-passenger, fully equipped, leather top, lined; seat covers, windshield; speedometer and clocks; tire trunk, 4 new tires, 2 used tires and 5 extra tubes. 1911 White Toy Tonneau; good as new. R. W. Moorhead Co., Kittanning, Pa.

**FOR SALE—Several unused five passenger White Steam Automobiles** at really bargain prices, using gasoline or kerosene for fuel. Write today. Charles G. Pape, Fort Wayne, Ind.

**A FEW RARE BARGAINS** in roadsters and touring cars taken in trade. Some suitable for light delivery. Overhauled and in best of condition. Box 72, Fenway, Mass.

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**GREAT BARGAIN** in National Electric. Tires and motor good. Write Parrett Machine Co., Wrenona, Ill.

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**AUTOMOBILES. SAVE DEALER'S PROFITS,** buy direct from the owners. I have all makes runabouts from \$50 up; touring cars from \$100. Don't purchase any car until you get my prices, all guaranteed for one year. King, Automobile Broker, 213-217 West 125th St., New York City.

**STEAM CAR Correspondence School.** Particulars, 520 Fourteenth St., Denver, Colo.

**WINTON—4 CYL.** 30 hp. touring; perfect condition. Tires fine; equipment complete. Everything like new. For quick sale, \$375; cost \$2,600. "Private," 246 Lenox Ave., New York City.

**WHITE STEAMER 30 hp.** model G, luxurious, seven passenger touring. Elegantly and completely equipped. Cost \$4,700; sell \$400. Suite 457, Thoroughfare Building, 972 Eighth Ave., New York City.

**CADILLAC 5 passenger** touring car, perfect condition, first \$110 takes it. McDonough, 147 Morningside Ave., New York City.

**BUICK 5 PASSENGER** touring car, top, full equipment. Excellent condition, \$150. Spillane, 248 East 119th St., New York City.

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**FOR SALE—15 HP. White Steamer engine and generator, complete outfit, \$80. One 10 hp. Cadillac engine with transmission and coil, \$40. One Offelt Boiler and burner, 16 inch, \$40. R. Roth, 1423 North Ave., Bridgeport, Conn.**

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**MOTORCYCLES. LOWEST PRICES, largest stock. Save dealer's profits. Buy direct from the owners. I have all makes. Indians, \$20 up; Marshes, \$20 up. Don't purchase any Motorcycle until you get my prices. All guaranteed for one year. King, 213-217 West 125th St., New York City.**

**WANTED—500 MOTORCYCLES immediately; any make, year, condition. We buy for cash! Let us make a cash offer for your motorcycle! A. C. C. A., 1769 Broadway, New York City.**

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**SUCCESS IS YOURS** if you work our new mail order plan. Particulars free. Write today. Chromatoscope Co., Dept. B, Norwalk, Conn.

**WEeping DOLL.** Latest patented toy, very laughable. Progressive Novelty Co., Roslindale, Mass.

**ENVELOPE MOISTENER, NO-WHITTLE PENCIL!** Self-selling. Sample, terms, 10c U. S. coin. Apex Sales Company, 1224-26 17th St., Denver, Colo.

**AGENTS—Embossed Gold and Silver Sign Letters.** Immensely profitable. Sample free. Johnston Co., Quincy, Ill.

**\$25 WEEKLY** and expenses to men and women to collect names, distribute samples and advertise. Steady work. C. H. Emery, M. R., Chicago, Ill.

**A BIG WINNER FOR AGENTS:** 7-in-1 Nickel Plated Combination Tool Key Ring; screw driver; bottle cap opener, envelop opener; pipe cleaner; cigar cutter; nail cleaner. Most useful pocket novelty invented. Sells itself. Sample 10 cents. Joseph Mathien, 203 Court St., Brockton, Mass.

**WANTED RELIABLE PERSON IN EVERY CITY.** Either sex to push the sale of new patent household articles; new ironing device; keyless door locks; umbrella clothes bars; combination shirt and trouser hanger; folding sleeve board; ideal roaster; sanitary water proof rugs; etc. \$5 to \$15 daily; easily made. Now is the time to get started. For particulars address, Dexter Supply Co., 508 S. Dearborn, Chicago.



**AGENTS WANTED** for the most rapid selling household article. ("The King Duster.") Every woman will buy one on sight. Extra commission; new proposition. Write Guard Sales Co., Phoenixville, Pa.

**PICTURE AGENTS LOOK!** \$10 daily selling our new copyrighted "Little Shepherd," "Negro Angel," "Jack Johnson," and 12 other negro pictures. Portraits 25c, 16x20 Frame 15c, Pill-toppers 35c. We help beginners. Catalogues. Sample free. Berlin Art Association, Department 76, Chicago.

**WANTED—COUNTY REPRESENTATIVES** for Success Hand Vacuum Cleaner. Superior to any Cleaner made either Hand or Power or Stationary Plant. We prove this in any contest. Largest Hotels using Success Cleaners. Biggest kind of Profits. Hutchison Mfg. Company, 312 Wood St., Wilkesburg, Pa.

**AGENTS WANTED—SELL RICH LOOKING** imported 36x8 rugs, \$1 each. R. H. Carter, Milan, Tenn., sold 115 in four days; his profits, \$51. You can do as well. Write for sample offer and unique selling plan; exclusive territory. A. Condon, Rug Importer, Stonington, Maine.

**AGENTS—\$50 weekly**; we manufacture the best needle case made; a wonderful seller; 200 to 500 per cent profit; talking unnecessary; our copyrighted "Trust Scheme" Envelopes do the work; general agents can make over \$100 weekly; send 10c for a 25c sample containing 115 needles; particulars free; buy direct from the factory at wholesale. Paty Needle Co., 102 Union Sq., Somerville, Mass.

**AGENTS—Earn \$25 daily easily**; write immediately for booklet; new patented specialty which doubles life of auto tires. Murray Co., 418 E. 31st St., Chicago.

**WANTED—Both sex** to sell Nickel-Aluminum Nameplates, no experience necessary, 100% profit. Public demands them over every door bell, price and style will sell thousands. Your name on sample with particulars, 20c. Clarence Hardage Mfg., Syracuse, N. Y.

**(CELLULOSIA) DOOR PLATES**, new, lettering pure gold. Send for sample case. Nothing invested. 100% profit; sell to every house. Public demand them. La Fontaine, Inventor and Mfr., Sherburne, N. Y.

**GET BUSY, LEARN TO MAKE NAME PLATES**, house numbers, etc. Make \$15 a day. Send for free booklet. Sixty illustrations. E. E. Palmer, Wooster, O.

**WANTED—BOYS AND GIRLS** to sell a very useful article which we are introducing. Cash paid for services. \$1 per evening, easily earned. Domestic Supply Co., Butler, Pa.

**BOKARA DIAMONDS**—Agents, everyone, wear and sell our famous Bokara Diamonds; write for sample offer and catalog free. Northwestern Jewelry Co., 52 Northwestern Bldg., Chicago.

**KING MONEY MAKER**. Particulars free. Godley Specialty Co., Chatham, Mass.

**AGENTS—EITHER SEX**. Legitimate. Address Dr. A. I. Clarke, 1840 Hammond St., Chicago.

**60,000,000 PEOPLE** are looking for the "Eversharp" Automatic Pencil. 100% profit. Write immediately for particulars or send a dime for sample. H. Kimball, 72 Hamilton Bldg., Paterson, N. J.

**SIGN LETTER AGENTS, PAINTERS**. Something new and better: Attracto Gold or Silver Letters. Look like Sign-writer's work, cost less, wear better. Anyone can apply them. Big money lettering store windows—making glass signs. Samples free. Attracto Sign Co., Kemper & Orchard, Chicago.

**BECOME A MILL AGENT**. We manufacture Triplewear Hosiery—outwears 3 ordinary kind, replaced free when hole appears. Large profits. 1st reply obtains agency your town. Write today. Triplewear Mills, Dept. D, 724 Girard Ave., Philadelphia.

**BOYS ARE MAKING** from three to five dollars each week, acting as our agents. Certificate worth one dollar mailed to boys who write. Kutrite Co., Thirteen South Sixth Street, Minneapolis, Minn.

**BIG PROFIT**. To sell a compound that cleans and makes silverware as bright as new by dipping article once in solution. Just the thing for every household and hotels. Sample package with agents terms 10 cents (silver). A. Lagerstrom Supply Co., Cannon Falls, Minn.

**WIDE AWAKE PEOPLE** by writing at once we will show you how to earn big money, selling furs on an investment of \$15.50 for samples. The Merchants Fur Company, 186 N. La Salle Street, Chicago, Illinois.

**WHY NOT EARN \$5 to \$25 daily?** Others do it with our new specialty. Send for booklet. The Rellemurd Company, East Greenville, Pa.

**START BUSINESS OF YOUR OWN**. Last year I cleared \$6,000 in one small mail-order business. Valuable information free. Vance, Marion, Ky.

**AGENTS—SELL THE SANITARY Steak Shredder**, a scientific nickel-plated-steel meat pounder. Retail 50c. Excellent Christmas gift; 120% profit. Specialty Manufacturing Co., Dows, Iowa.

**AGENTS—Everybody buys our readymade Air Brush Show Cards**. Write today for free catalog. Popular Show Card Co., Desk D, 1235 Michigan Ave., Chicago.

**AGENTS—MEN AND WOMEN** for newly patented legitimate; quick seller. Marshall, 648 Railway Exchange, Chicago.

**400% PROFIT SELLING GORDON Photo Pillow Tops**. High grade work. Samples and catalogue free. Luther Gordon Co., 164 Washington St., Chicago.

**COMMISSION SALESMEN WANTED**—Willing to earn \$10 per day; new novelty for Cigar, Candy and Drug trade. Write: White, 1235 Van Buren, Chicago.

**AGENTS WANTED EVERYWHERE** to sell high grade household specialties; no talking needed; sells on sight; send for catalog. Pequod Supply Co., Pawtucket, R. I.

**AGENTS WANTED** to introduce Matchless Gaslighters. Light nothing but gas. Sample 15c. Particulars free. Elwell-Shaver & Co., Dunkirk, N. Y.

**NAME ON RUBBER STAMP**, 15c; with address, 25c. National Stamp Works, 42 N. Fifth Ave., Chicago. Catalogue.

**MINIATURE NOVELTIES—SMALLEST ALARM CLOCK**. Novelty Scale; Dutch Shoes; Telephone and Bible; 10c each. Globe Novelty Co., 18 Leavenworth St., Omaha, Neb.

**AMAZING INVENTION—SOMETHING NEW**—Handsome nickel plated lamp burner, scientifically made. Produces large, brilliant, steady, white flame. Rivals gas. Guaranteed smokeless, odorless. Not a mantle. Can't break. Beats anything you ever saw. Brings you quick sales, large profits. Only 35c retail. Territory going fast. Particulars free. "Radiolite," 364 Colorado, Toledo, O.

**SIGN PAINTING AGENTS**. 1000% profit. Best and cheapest Window Letter made. Easiest mounted. Outfit free. Success positively guaranteed. Embossed Letter Co., 2563 Milwaukee Ave., Chicago.

**AUTOMOBILE OWNERS**—Be our agent and make from \$5.00 to \$20.00 a year. Our Air-Friction Carburetor will drive your car at two miles an hour on high speed; gives much more speed and power. Satisfaction guaranteed or money refunded. Air Friction Carburetor Co., Dept. W., Dayton, Ohio.

**AGENTS**: Send for free booklet, inside information on the agency business. Filled with money making plans. Pointers at experience of thousands of successful agents. Address J. A. Finch, 1162 3rd St., Dayton, Ohio.

**FREE SAMPLE** goes with first letter. Something entirely new. Every firm wants it. Orders \$1.00 to \$100.00. Nice, pleasant business. Write today. Metallic Sales Co., 406 N. Clark St., Chicago.

**AGENTS—100% PROFIT**—Genuine Leather Combination Purse Billfold, Memorandum Book, Pencil, Identification Card. Sell at sight. Agents' sample 45c postpaid. LeRoy Specialty Co., 76 Park Place, Room 52, New York.

**ONE MILLION AGENTS WANTED**; fast seller costing 5c selling 50c. Every firm needs. Orders to \$50. Postal bring samples. Embossed Co., 2497 Milwaukee Ave., Chicago.

**AGENTS—We manufacture** four of the most fascinating game boards ever invented. 100% profit, orders bound to repeat, nothing like them on market, slot machines beat. Particulars free. Unique Novelty Co., Independence, Iowa.

**AGENTS WANTED**—Send 15 cents for smallest Bible in the world and one of each of our catalogues, with agent's price. A. S. Mankin & Co., Alexandria, Va.

**AGENTS WANTED** to sell our beautiful scripture wall mottoes. Frank Shilling Co., Navarre, Ohio.

**AGENTS MAKE \$30.00 WEEKLY** selling our 500 Handy Household Articles; catalogue free. Scheff Company, 1637 Wells Street, Chicago.

**\$DOLLARS\$ ADDER**—Pocket Adding Machine. Wonderful seller. Guaranteed. \$1 postpaid. Globe Sales Co., N172 Leavenworth, Omaha, Neb.

**WANTED—AGENTS**, 7 cents profit each 10 cent sale; best little article ever offered; sample for 3 cents in stamps. Rawling Box 945, St. Louis, Mo.

**MAN CLEARED \$1182**. Lady \$720, last six months, selling Holladay's Marvel Shoe Polish, selfshining, waterproof. Will not you? Write for demonstrated sample. P. M. Holladay, 23 W. 31st, New York.

**SEE WHAT WE SAY** under "Patent" heading. Swift, Attorney, Washington.

**YOUR NAME AND ADDRESS** on an air-cushion rubber stamp 20c. Including pad, 30c. Smith Supply, Waukegan, Ill.

**ANYONE, ANYWHERE, CAN START** a mail order business of their own. Make \$10 to \$50 a week during spare time; experience unnecessary; we, as manufacturers, start you and furnish everything. Patented great repeat order getters; sold exclusively to our co-workers; big profits; small capital; get in now on our new leaders and new plan; get in touch with full particulars. "Whole Truth" and sworn statement. Write today. J. M. Pease Mfg. Co., 193 Pease Bldg., Michigan St., Buffalo, N. Y.

**MAIL ORDER ADS THAT PAY**. 20 different propositions fully explained. All bona fide, sure-fire Money-getters. Each one the foundation of a successful Mail Order business. Send 10c for full particulars and regular bulletin of new propositions. Mail Dealers Wholesale House, 450 Franklin Bldg., Chicago, Ill.

**MEN AND WOMEN WANTED** to control exclusive agencies rapid selling, low priced specialty. Universal demand, plenty repeat orders; good profit to hustlers. Write for free sample and terms to-day. The G. V. Sales Co., Room 1325, 150 Nassau St., New York City.

**I WILL START YOU** earning \$4 daily at home in spare time silvering mirrors; no capital; send for free instructive booklet giving plans of operations. G. F. Redmond, Dept. 306, Boston Mass.

**AGENTS—HANDKERCHIEFS, DRESS GOODS**. Carleton made \$8.00 one afternoon; Mrs. Bosworth \$25.00 in two days. Free samples. Credit. Stamp brings particulars. Freepor Mfg. Company, 59 Main St., Brooklyn, N. Y.

**AGENTS WANTED** in every county to sell Transparent Handi-Pocket Knives. Big commission paid. From \$75.00 to \$300.00 a month can be made. Write quick for terms. Novelty Cutlery Co., 57 Bar St., Canton, Ohio.

**AGENTS** make big money selling our new gold letters for office windows, store fronts and glass signs. Any one can put them on. Write today for free sample and full particulars. Metallic Sign Letter Co., 406 N. Clark St., Chicago.



**WIN NEXT \$1,200.00.** We tell you how. \$40,000.00 already won by 10 inexperienced people. Stoneman received \$1,200.00 one month, \$15,000.00 to date. Korsted \$2,200.00 in two weeks; Schleicher \$195.00 first 12 hours. Strange invention startles world. Gives every home a bath room with hot and cold running water for \$6.50. Abolishes plumbing, water works, Self-heating. Little wonder. Hart sold 16 in 3 hours, \$5,000.00 to date; Lodewick 17 first day. Credit given. Investigate today. Beat others to exclusive sale. Means fortune. Allen Mfg. Co., 3383 Allen Bldg., Toledo, Ohio.

**GENERAL AND LOCAL AGENTS:** Here is your opportunity. Energetic men can make \$2,500 yearly and up. The Improved Canchester Kerosene Mantle Lamp revolutionizes old methods. Far superior to electricity, gas, acetylene or gasoline at 1/10 the cost. Burner fits all lamps. Safe; clean; odorless. Burns with or without mantle. Tested and pronounced by State of Pennsylvania "Most efficient light found." Greatest seller known. We want a few more live men in open territory. Canchester Light Company, Dept. P. M., 204 N. State St., Chicago.

**LIVE AGENTS WANTED.** A permanent income selling Koeth Kombination Kit, 15 tools in one. Finest tool steel, guaranteed. Big profits. Wonderful seller. Exclusive territory. Send for free sample offer and terms. Currier-Koeth Mfg. Co., 52 West St., Coudersport, Pa.

**AGENTS—\$50 weekly;** we manufacture the best needle case made; a wonderful seller; 200 to 500 per cent profit; talking unnecessary; our copyrighted "Trust Scheme" Envelopes do the work; general agents can make over \$100 weekly; send 10c for a 25c sample containing 115 needles; particulars free; buy direct from the factory at wholesale. Paty Needle Co., 102 Union Sq., Somerville, Mass.

**AGENT'S OUTFIT FREE.** Quick profits. Best Handkerchiefs, Dress Goods and Fancy Goods on the market. Large Manufacturer. Particulars for stamp. Maricopa Mfg. Co., 93 Water St., Brooklyn, N. Y.

**HONEST MAN OR WOMAN WANTED** in every town to represent well-known wholesale firm. Experience unnecessary. Must furnish good references. Easy, pleasant work. Fair salary to start. McLean, Black & Co., 351 Medford St., Boston, Mass.

**MEDALLIONS SELL AT SIGHT.** 300 per cent to 500 per cent profit. Make up your own goods and be independent. "It's easy." Catalog free. Fred Resag Co., 1205 W. Randolph St., Chicago.

**AGENTS—WE MANUFACTURE GLASS PAPER.** Plain glass windows made to look like real stain glass; something new; easily applied; big money maker; two sample sheets of paper, with catalogue in colors and discount sheet, for 10c. S. H. Parrish & Co., 202 S. Clark St., Chicago.

**WIDOWS, Ladies, Men, New Interesting.** Profitable, easy work. Spare time or permanent. Sell our useful specialties. Our original selling plan will double your sales. Particulars and \$2.00 premium offer free. Fair Mfg. Co., HF51, Racine, Wis.

**AGENTS—\$5 daily** selling our Handy Tool, 12 articles in one, lightning seller. Sample free. Thomas Mfg. Company, 462 Third St., Dayton, Ohio.

**PERFECTION POCKET ADDING MACHINE.** Lightning seller. Agents wanted. Cincinnati Specialty Mfg. Co., Dept. R., Cincinnati, Ohio.

**SELF-THREADING NEEDLES.** 10c a paper. Agent's samples and terms free. Ladies' Art Co., Dept. 41, St. Louis, Mo.

### BLACKSMITHS

**HIGH GRADE** steel welding compound. Formula, 25c. H. O. Bass, Hillsboro, Ill.

**GOOD BLACKSMITHS ARE SCARCE** and few learning the trade and the blacksmiths must make the tools for all—from surgeon to the safe blower. Buy Toy's Modern Methods Forging and Welding different kinds of steel solid, and doing all hard jobs easy, also hardening and tempering to a standard by colored charts. Any smith can be an expert that means good jobs and big money. All for one dollar. Send for valuable samples free. W. M. Toy, Sidney, Ohio.

### HELP WANTED

**ARE YOU THE MAN?** Here is your opportunity. No matter where you live—if you want to make big money and establish yourself in an independent business requiring no capital—we will teach you, by mail, all the secrets of the Real Estate Business including thorough Commercial Law Course, list with you readily salable properties, co-operate with and assist you to permanent success. Our 64-page free book fully explains our methods and tells what it means to be the local representative of oldest and largest Co-Operative Realty and Brokerage Corporation in the World. Write today to International Realty Corporation, 2034 Manhattan Building, Chicago, Ill.

**WANTED RELIABLE MEN** to learn Automobile Driving and Repairing in the largest and best equipped school teaching this trade. A most interesting, healthful and paying profession. Can be learned in a few weeks and at small cost. Competent men always in demand at salaries ranging from \$18 to \$35 a week. Our 32 page book "How to Drive" gives full particulars. Greer College of Motoring, 1457 Wabash Avenue, Chicago, Ill.

**NEW USEFUL NOVELTY—**Interests every user of telephone, umbrellas, tools, brushes, doors. Attracts crowds at Fairs; Window and Street demonstrations. Big profits. Nickede pocket sample, 25c. Useful Holiday Gift, Handy Tool Holder Co., Warehouses, Brooklyn, N. Y.

**WE TRAIN DETECTIVES.** You can be one. Splendid opportunities. Travel. Earn \$100 to \$300 monthly. This fascinating profession taught practically and scientifically by mail at a nominal cost. American School of Criminology, Dept. F, Detroit, Mich.

**MEN WANTED FOR GOVERNMENT POSITIONS—\$80.00 a month.** Annual vacations. Short hours. Steady work. Rapid promotion. Thousands of appointments coming soon. "Pull" unnecessary. Farmers eligible. Send immediately for list of positions open. Common education sufficient. Franklin Institute, Dept. P-21, Rochester, N. Y.

**ELECTRICAL METERMEN WANTED IN EVERY STATE—\$900-\$1,800 yearly.** Rapid introduction of Electricity creating new positions daily. We will fit you for splendid positions and assist you to get it. Booklet giving full particulars free. Write for it today. Fort Wayne Correspondence School, Dept. 20, Fort Wayne, Ind.

**GOVERNMENT WANTS EMPLOYEES—10,000 appointments coming.** Excellent salaries. Vacations. Write for list of positions open. Franklin Institute, Dept. P-21, Rochester, N. Y.

**THE VULCAN SOOT CLEANER** offers an exceptional opportunity for power specialty salesmen. We have openings for high-grade steam specialty men or mechanical engineers as representatives. G. L. Simonds & Co., 806 Steinway Bldg., Chicago.

**WHY NOT PREPARE for Civil Service Examination?** Teaching? Stenographer? Bookkeeper? Stationary Engineer? Electric Wiring? Electrical Engineer? Mechanical Engineer? Mechanical Draftsman? Electric Wiring? Matriculation. \$5. Tuition free. Mail course. Address Carnegie College, Rogers, Ohio.

**EARN \$30 WEEKLY** taking orders for Cut Rate Groceries for America's largest grocery house. Outfit free. Standard Grocery Co., 352 Arcade, Cleveland, O.

**ALCA \$6.00 HAND VACUUM CLEANER** wins first prize at all exhibitions. It is the finest agent's proposition in the land. Write for money-doubling contract. Alca Vacuum Cleaner Co., Dept. A, 366 W. 50th St., N. Y.

**WANTED—Railway Mail Clerks.** Average salary, \$1,100. Alternate weeks off with full pay. Examinations everywhere soon. Send for schedule of places. Franklin Institute, Dept. P-21, Rochester, N. Y.

**SALESMEN, WRITE AND FIND** out why our lines bring increased commissions over other lines. 35 salesmen wanted throughout the country and in large cities. Brice Williams Calendar Co., Kokomo, Ind.

**WE START YOU IN** a permanent business with us and furnish everything. We have new easy selling plans and seasonable leaders in the Mail Order line to keep our factories busy. No canvassing. Small capital. You pay us out of the business; large profits. Spare time only required. Personal assistance. Write today for plans, positive proof and sworn statements. J. M. Pease Mfg. Co., 191 Pease Bldg., Michigan St., Buffalo, N. Y.

**WANTED—Active man** in each locality to join this society and introduce our Memberships, Sick, Accident, Death benefits. All or spare time. \$50 to \$500 a month. Every Member secured gives you a steady monthly income. Box GA-293, Covington, Ky., U. S. A.

**CAN YOU WRITE a Good Business Letter? Or Spell correctly?** Have you command of English? Our Free Booklet 14 will tell you how to improve 100 per cent. Write for it today. School of Business English, Washington, D. C.

**7,000 GOVERNMENT POSITIONS OPEN.** Write for list. Franklin Institute, Dept. P-21, Rochester, N. Y.

**GOVERNMENT POSITIONS** offer steady, pleasant employment, big pay. Influence unnecessary. Get your preparation from former United States Civil Service Examiner. Write for big, free, descriptive booklet. Patterson Civil Service School, Box 826, Rochester, N. Y.

**BIG MONEY WRITING SONGS.** Thousands of dollars for anyone who can write successful words or music. Past experience unnecessary. Send us your song poems, with or without music, or write for free particulars. Acceptance guaranteed if available. Washington only place to secure copyright. H. Kirkus Dugdale Co., Dept. 265, Washington, D. C.

**DANDY HOME BUSINESS.** Collect names, information, etc., for business concerns. Steady income. Fascinating work. Instructive booklet for stamp. Information System, 261 Marietta, Ohio.

**2,000 RAILWAY MAIL CLERKS WANTED.** \$800 to \$1600. Examinations everywhere. Preparation free. Franklin Institute, Dept. P-21, Rochester, N. Y.

**READ OUR ADVERTISEMENT** under agents wanted. Pinless Clothes Line Co.

**WANTED—Government wants Railway Mail Clerks.** Average salary, \$1,100. Alternate weeks off with full pay. Examinations coming everywhere. Write for free sample questions and schedule of locations. Franklin Institute, Dept. P-21, Rochester, N. Y.

**YOUNG MEN** who desire to become professional base ball players write at once giving experience. American Base Ball Registration Bureau, Dept. A, 409 Phoenix Bldg., Minneapolis, Minnesota.

**RAILWAY MAIL CLERKS WANTED—**Average salary \$1,100. Write immediately. Franklin Institute, Dept. P-21, Rochester, N. Y.

**WANT TO CORRESPOND** with machinist, who wants to go in business, if you invest a little cash, will put you in charge of a good shop. Address, R. C., 6th floor, 318 W. Washington St., Chicago.

**WANTED—DISTRIBUTERS** of advertising matter everywhere. Oliver D. Barkley, Mount Pleasant, Pennsylvania.

**I MADE \$18,000.00** in three years in mail-order business, free booklet tells how. H. System, Marion, Ky.

**MEN AND BOYS TO LEARN AUTOMOBILE** repairing, driving on up-to-date cars; electrical, civil engineering, surveying. In most practical way. Room and board while learning. Positions secured; satisfaction guaranteed; catalog free. National School of Engineering, 2110 West 7th, Los Angeles.

**CORRESPONDENCE SCHOOL, STUDENTS** taking courses in Mechanical or Structural Drafting will learn something to their advantage by addressing G. Clair, 304 Lewis Building, Pittsburgh, Pa.



**LIVE-WIRE SALESMEN** everywhere for important new automobile specialty; field unlimited; liberal commission. Address, 463 Fourth Ave., Newark, N. J.

**BIG FORTUNES MADE YEARLY** in Mail Order Business. I make \$5,000 yearly from small start. My plan is free. Haynes, Marion, Ky.

**WANTED, AGENTS, MACHINISTS, ATTENTION!** Increase salary, new revised Saunders' Hand Book of Practical Mechanics. Best ever ready reference. Thousands in use. Postpaid \$1.00 cloth; \$1.25, \$1.50 leather flap. Big profits. E. H. Saunders, 216 Purchase St., Boston, Mass.

**WANTED ONE THOUSAND CHAUFFEURS** and repair men. Our demand for automobile engineers exceeds the supply. Calls for men of intelligence and mechanical bent capable of commanding \$100.00 to \$150.00 per month upon graduation. Resident course \$20.00 to \$60.00. Home Correspondence course completed by practical road and shop work at this school, highly successful. Look this up. Auto Schools of America, Dept. T, 1600 Michigan Ave., Chicago.

**WANTED SALESMEN** to sell Gasoline Lighting Systems; no experience necessary; attractive proposition. Doud Lighting Co., 174 No. Sangamon St., Chicago, Ill.

**STOP HERE!** Let me start you in a home business that will bring you money every day. Experience unnecessary. Spare time. No canvassing. I furnish everything and guarantee success. Send for proofs. Voorhies, Desk C. R., Omaha, Neb.

**I WILL START YOU** earning \$4 daily at home in spare time, silvering mirrors; no capital; send for free instructive booklet, giving plans of operation. G. F. Redmond, Dept. 306, Boston, Mass.

**WANTED—A man or woman** to act as our information reporter. All or spare time. No experience necessary. \$50 to \$300 per month. Nothing to sell. Send stamp for particulars. Sales Association, 601 Association Bldg., Indianapolis, Ind.

### CEMENT

**IF YOU WANT** the best information on cement and concrete construction, subscribe for Concrete, leading cement and concrete monthly. Sample copy, 10 cents. Yearly subscription, \$1.00. Concrete, 135 Newberry Bldg., Detroit, Mich.

### DOGS, POULTRY AND LIVE STOCK

**HERE IS A PRESENT FOR YOU.** A beautiful colored picture "100 chicks at play" and book "How to make money raising chickens." Send 10 money. Western Poultry Farm, 900 Harriet St., Winona, Minn.

**TRAINED BEAR, DEER, FOX** and Wolf Hounds. Forty page highly illustrated catalogue; four cent stamp. Rookwood Kennels, Lexington, Ky.

**REGISTERED POLAND CHINA PIGS** of large type. They are beauties. Write Alfred A. Nieweg, Lois, Mo.

**SCOTCH COLLIE DOGS.** Send for list. W. R. Watson, Oakland, Iowa.

**FANCY SINGLE COMB Buff Orpingtons.** Inquire. Dane Hufington, Latham, Kansas.

**COLLIE CATALOGUE FREE.** White-Neck Kennels, Brownburg, Ind.

**FOR SALE—"GENERAL ELECTRITE"** 42934. Handsomest, best gaited Trotter in the South; good enough to head any herd; very reasonable to sell quick; investigate. M. A. Griffin, Penelope, Texas.

### FLOUR, FEED AND MILLING MACHINERY

**SPECIAL BARGAINS IN SECOND HAND:** Attrition Mills, Burr Mills, Crushers, Corn Shellers, Bran Dusters, Dust Collectors, Purifiers, Reels, Double, Single 2 and 3-pair High Roller Mills, Sieve Bolters, Receiving Separators, Scourers, etc. Write for description and prices. Sprout, Waldron & Co., P. O. Box 429, Muncy, Pa.

### MACHINERY AND TOOLS

**REBUILT MOTORS—We** have a number of second-hand marine engines of our own and other makes, completely rebuilt and guaranteed by us. As the builders of "Buffalos" are not in the second-hand engine business, we will sell them at less than factory cost to make room. This is a rare opportunity to get the highest grade of engines—2 to 100-hp.—cheap. Buffalo Gasoline Motor Co., 1284-96 Niagara St., Buffalo, N. Y.

**FOR SALE—One 6 HP type "F,"** Single Cylinder Fairbanks-Morse, two cycle marine engine. Used less than one month. Perfect condition. Schebbler Carburetor. \$75. A. G. Langworthy, 900 S. Wabash Ave., Chicago, Ill.

**HARRISON KEY FILING JIG,** the greatest invention of the age. Enables anyone to make perfect duplicate Pin Tumbler Keys, no misfits, saves blanks; price within reach of everyone. Harrison & Co., 81 New St., N. Y.

**FREE—"How to Run and Install Gasoline Engines."** Greatest little book ever published on this subject, sent free with year's subscription to Gas Energy. Learn how to solve all knotty Gas Engine problems in few moments. O. L. Stevens, Ind., writes, Gas Energy is best magazine published. Send 50c for year's subscription. Book free. Gas Energy, 28 Murray St., New York.

**CASTINGS \$6.** 1 Hp. vertical-horizontal air-cooled gas-gasoline engine, including carburetor castings. Drawings 25c. Elgin Gas Engine & Machine Co., Elgin, Ill.

**SCREW CUTTING LATHE** ten by twenty-six. Complete, \$65. Wm. Rockwell, Eldred, Pa.

**ELECTRIC LIGHT PLANT—12-hp., 2-cyl. Gasoline Engine,** governors, magneto, pump, etc.; 1,500 watt dc. Dynamo, rheostat, marble switch board. Installed last February. Price, \$375. Box 59, Dalton, Ohio.

**FOR SALE: Small Screw Cutting Engine Lathe, Chuck and Tools.** Fine condition. Bargain. John A. O'Brien, 420 Hydraulic Ave., South Bend, Ind.

**TWO CYCLE, TWO CYLINDER, 4" x 3 1/4" Marine and Automobile,** Gasoline Engines, Castings and drawings of same for sale. Richards Iron Works, Manitowoc, Wis.

**DYNAMOS & MOTORS,** any voltage or current; 500 direct and alternating current are lamps, rebuilt and fully guaranteed. Get our monthly bargain list. Cash paid for electric machinery. Machinery Sales Co., 11 East Woodbridge, Detroit, Mich.

**THE PATTERSON TOOL & SUPPLY CO.,** Dayton, Ohio, are specialists in furnishing equipment for automobile repair shops. Tell them your wants.

**2 H. P. ENGINE** and accessories, \$35, cash only. Address, Box 116, Kingman, Kansas.

**MIETZ & WEISS 7 hp. gas engine,** \$135. Moulton, Monson, Mass.

**PULLEYS, GEARS, SPROCKETS, Shafting Hangers;** see page 138. W. A. Jones Foundry & Machine Co., Chicago.

**BARGAIN in 2 cyl., 14 h. p. new marine engine.** Completely equipped. Jack Ihrig, Goshen, Ind.

**50 REBUILT DYNAMOS and Motors.** Box 161, Troy, O.

**WILL SELL AT A BARGAIN** for we have no further use for same. 45 hp. gas engine Westinghouse, with D. C. generator direct connected; also a producing gas outfit, produces at 1 1/2 per K. W.; all in first class condition. For further particulars, address Michigan Fibre Box Co., Battle Creek, Mich.

**10 TON REFRIGERATION MACHINE** complete with all fittings, receiver, traps and condenser. Cost to install, \$3,100. Will sell for \$850. R. Pinner, 122 Water St., New York, N. Y.

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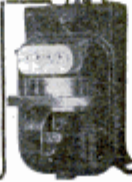
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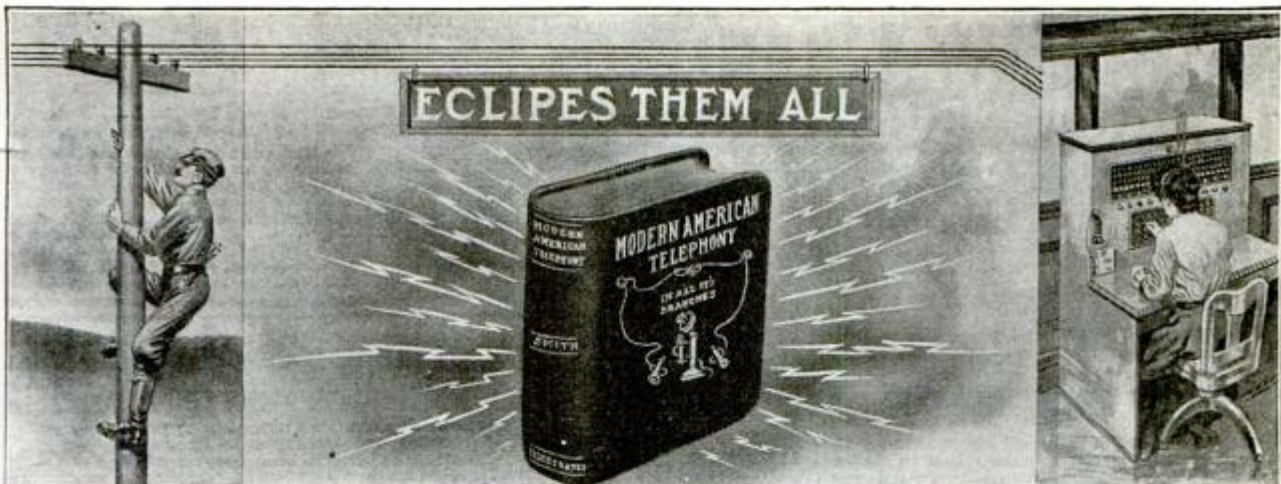
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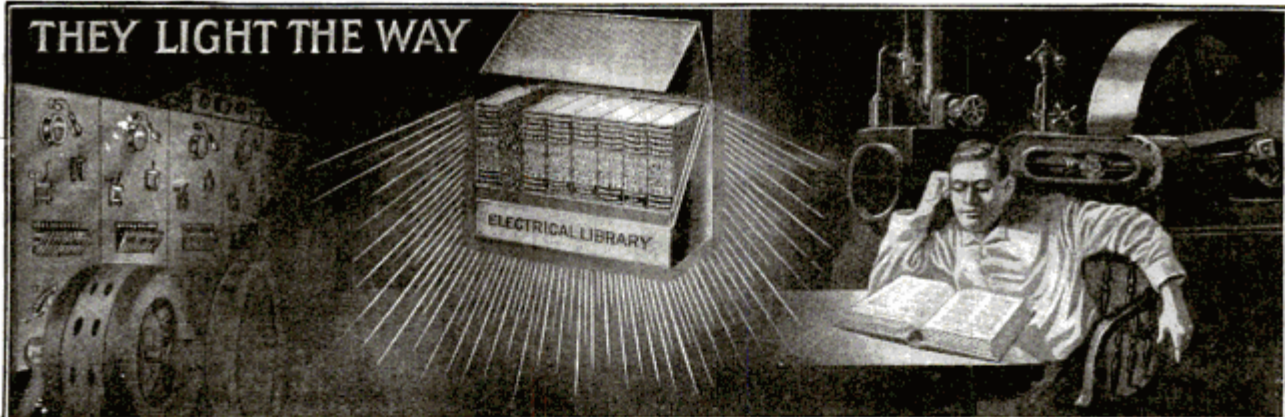
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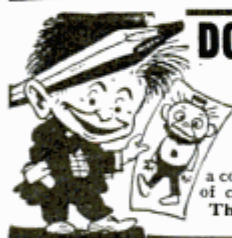
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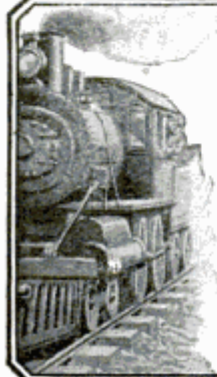
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